

**UNITED STATES DEPARTMENT OF COMMERCE****United States Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
-----------------	-------------	----------------------	---------------------

09/212,442 12/16/98 BARTSCH

U 3597-16

EXAMINER

MM91/0531

MCCORMICK PAULDING & HUBER  
CITYPLACE II  
185 ASYLUM STREET  
HARTFORD CT 06103-4102

PRETLOW, D

ART UNIT

PAPER NUMBER

2857

DATE MAILED:

05/31/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

<b>Office Action Summary</b>	<b>Application No.</b>		<b>Applicant(s)</b>	
	09/212,442		BARTSCH ET AL.	
	<b>Examiner</b>		<b>Art Unit</b>	
	Demetrius R. Pretlow		2857	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 16 December 1998.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-35 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 December 1998 is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. § 119**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

**Attachment(s)**

- |  |  |
|--|--|
| 15) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                             | 18) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 16) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 19) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 17) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 20) <input type="checkbox"/> Other: _____                                    |

### ***Drawings***

1. This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.
2. The drawings are objected to because Figures 1 – 5 do not contain text labels. Correction is required.

### ***Specification***

#### **Content of Specification**

- (a) Title of the Invention: See 37 CFR 1.72(a). The title of the invention should be placed at the top of the first page of the specification. It should be brief but technically accurate and descriptive, preferably from two to seven words.
- (b) Cross-References to Related Applications: See 37 CFR 1.78 and MPEP § 201.11.
- (c) Statement Regarding Federally Sponsored Research and Development: See MPEP § 310.
- (d) Reference to a "Microfiche Appendix": See 37CFR 1.96(c) and MPEP § 608.05. The total number of microfiche and the total number frames should be specified.
- (e) Background of the Invention: The specification should set forth the Background of the Invention in two parts:
  - (1) Field of the Invention: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."
  - (2) Description of the Related Art: A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are

solved by the applicant's invention. This item may also be titled "Background Art."

- (f) Brief Summary of the Invention: A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.
- (g) Brief Description of the Several Views of the Drawing(s): A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.
- (h) Detailed Description of the Invention: A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. This item may also be titled "Best Mode for Carrying Out the Invention." Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.
- (i) Claim or Claims: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet. (37 CFR 1.52(b)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps.
- (j) Abstract of the Disclosure: A brief narrative of the disclosure as a whole in a single paragraph of 250 words or less on a separate sheet following the claims.
- (k) Drawings: See 37 CFR 1.81, 1.83-1.85, and MPEP § 608.02.
- (l) Sequence Listing: See 37 CFR 1.821-1.825.

3. The disclosure is objected to because of the following informalities:

On page 5, "16" after data input unit, should be changed to "18".

On page 1, "galvonically" on line 27 is misspelled.

Appropriate correction is required.

***Claim Objections***

4. Claim 1 is objected to because of the following informalities: "galvonically" is misspelled. Appropriate correction is required.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Karr et al in view of Smith et al further in view of Castellano et al, further in view of Hutchings et al and further in view of Allgaier et al. Karr et al teaches a measuring modules (86) which is used to measure the length of each stride by performing mathematic functions. Note Karr et al, abstract, Figures 2 and 5. Karr et al teaches a data processing unit (86), data input units (40,42,44,46), a indicator unit (38), a clock (58) galvanically separate from the measuring module. Karr et al teaches that stride lengths are measured by ultrasonic waves, which is performed by ultrasonic generator

(12) and detector (14). Generator (12) consists of a crystal controlled time base (58) which can be interpreted as a clock. Karr et al teaches transmitting data via an antenna to the processing and display module (16) which can be interpreted as non-touching obtaining means. Karr et al teaches transmitting time data to the measuring module Note column 7, lines 8-11. Smith et al also teaches the use of an optical transmitter receiver (318) which transmits and receives data to and from the measuring module (100) which includes a display (210). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Karr et al and Smith et al because it would allow the number of steps taken during selected time intervals to be determined and recorded.

In reference to claim 2, Karr et al teaches a time indicator selectably settable and after a measurement resetable to the actual time. Note Karr et al column 5, lines 27-48.

In reference to claim 3, Karr et al, Smith et al, Castellano et al and Hutchings et al do not teach an analog time indicator with hands, and obtaining means obtains hand positions. Allgaier et al teaches analog time indicator with hands, and obtaining means obtains hand positions Note Allgaier et al abstract. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to add the teachings of Allgaier et al with the combination of Karr et al, Smith et al, Castellano et al and Hutchings et al because it will provide a simpler query of position and the transfer of the display elements into a predetermined display position, in particular a reference position, that may be carried out.

In reference to claim 4, Karr et al, Smith et al, Castellano et al and Hutchings et al do not teach optically obtaining hand positions. Allgaier et al teaches obtaining hand positions. Note Allgaier et al Abstract. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to add the teachings of Allgaier et al to the combination of Karr et al, Smith et al, Castellano et al and Hutchings et al because it would allow the device to keep accurate time.

In reference to claim 5, Karr et al teaches a digital indicator with an LCD screen (38). Note Figure 1 item 16. Karr et al teaches a measuring module (86) which corresponds to start, stop and restart functions. There has to be a counter involved for the device to determine time and some type of sensor is used to transfer the data to the display to show the time which suggests that the measuring module has a counter triggerable by a sensor sensing LCD screen. Note Figure 1 item 16 and column 7 lines 60-66. Karr et al does not teach the display selectively switchable to dark. The Examiner takes Official Notice that an LCD screen selectively switchable to dark is well known in the art because it would allow a user with bad eye site to adjust the display to a desired preference.

In reference to claim 6, Karr et al teaches devices for wireless transmission. Note Figure 4 item 78 and Figure 5 item 84.

In reference to claim 7, Karr et al, Smith et al, Castellano et al, Hutchings et al and Allgaier et al do not teach measuring module releasably connected with the clock. The Examiner take Official Notice that measuring module releasable connected with the

clock is well known in the art because it would allow a person remove the measuring module to download measured information with out interfering with the clock.

In reference to claim 8, Karr et al, Smith et al, Castellano et al, Hutchings et al and Allgaier et al do not teach a measuring module clippable onto the clock. The Examiner takes Official Notice that a measuring module clippable to a clock is well known in the art because it would allow the measuring module to be removed easily.

In reference to claim 10, Karr et al teaches a wristband (36).

In reference to claims 9 and 23, Karr et al teaches a common housing (34) for the clock and measuring module. Note column 5 lines, 8-18.

In reference to claim 11, Karr et al and Smith et al, and Hutchings et al not teach the measurements of parameters of the body. Castellano et al teaches analyzing blood characteristics which is interpreted as a parameter of the body. Note Castellano et al column 13 lines 35-44. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Castellano et al with the teachings of Karr et al and Smith et al because it would allow a person to detect if a persons glucose level is high.

In reference to claim 12, Karr et al, Smith et al, Castellano et al, Hutchings et al and Allgaier et al do not teach environmental parameters. The Examiner takes Official Notice that measuring environmental parameters are well known in the art because it could allow the detection of the amount of pollen in the air.

In reference to claim 13, Karr et al and Smith et al do not teach a data processing unit that has a memory accessible through the data input unit. Castellano et al teaches



data processing unit (314) that has a memory accessible through the data input unit (310). Note Castellano et al column 13 lines, 61-67. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Castellano et al with the teachings of Karr et al and Smith et al because it would allow program instructions to be uploaded and information downloaded.

In reference to claim 14, Karr et al teaches an alarm coupled to the measuring module. Note column 8 lines 10-13.

In reference to claim 15, Karr et al teaches carrying out calculation functions. Note column 5 lines 13-18.

In reference to claim 16, Karr et al, Smith et al and Hutchings et al do not teach supervisory functions. Castellano et al teaches supervisory functions. Note column 9 lines 3-8 and 43-45. It would have been obvious to a person of ordinary skill in the art at the time invention was made to add the teachings of Castellano et al to the combination of Karr et al and Smith et al because it would remind a user to perform injections in case they forget.

In reference to claim 17, Karr et al, Smith et al and Hutchings et al do not teach indicating the amount and the application time point of a medicine. Castellano et al teaches indicating the amount and the application time point of a medicine. Note column 9 lines, 29-32. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Castellano et al with the teachings of Karr et al and Smith et al because it would allow the doctor to download the stored information for review.

In reference to claim 18, Karr et al teaches a measuring module having a radio receiver (84). Note column 7 lines 42-52.

In reference to claim 19, Karr et al, Smith et al and Castellano et al do not teach geographic position. Hutchings et al teaches geographic position. Note claim 12 and column 19 lines 3-19. It would have been obvious to combine the teachings of Hutchings et al with the combination of Karr et al, Smith et al, and Castellano et al because it would allow periodic updates of coordinates to be obtained.

In reference to claim 20, Karr et al, Smith et al, Castellano et al, Hutchings et al and Allgaier et al do not teach a data processor connected to a speech module. The Examiner takes Official Notice that a speech module connected with a data processor is well known in the art because it would allow people with physical disabilities (ex. missing arms) to activate a device with there voice.

In reference to claim 21, Karr et al , Smith et al and Hutchings et al do not teach a contact service for data exchange with an external device. Castellano et al teaches a contact service (46) for data exchange with an external device. Note column 9 lines 37-45. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Castellano et al with the teachings of Karr et al and Smith et al because it would allow the doctor to download stored medical information.

In reference to claim 22 the Karr et al and Smith et al, Hutchings et al do not teach contact surface covered. Castellano et al appears to teach the contact (46) covered. It would have been obvious to a person of ordinary skill in the art at the time

the invention was made to combine the teachings of Castellano et al with the teachings of Karr et al and Smith et al because it would help prevent the contact from being damaged and contaminated thereby preventing transmission.

In reference to claim 24, Karr et al, Smith et al and Hutchings et al do not teach contact elements on the side of the clock housing. Castellano et al teaches contact elements on the side of the clock housing. Note Figure 22 item (320) and column 14 lines 41-48. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Castellano et al with the teachings of Karr et al and Smith et al because it would allow stored data to be downloaded.

In reference to claim 25 Karr et al, Smith et al, Castellano et al, Hutchings et al and Allgaier et al do not teach an alarm device actuated when a data exchange has ended. The Examiner takes Official Action that using an alarm to indicate a data exchange has ended is well known in the art because it would notify the doctor that all the information desired as been successfully downloaded.

In reference to claim 26, Karr et al and Smith et al and Castellano et al, Hutchings et al and Allgaier et al do not teach a transponder for the contactless transmission of data. The Examiner takes Official Notice that transponders are well known in the art because it is commonly used with wireless transmissions.

In reference to claim 27 Karr et al, Smith et al Castellano et al, Hutchings et al do and Allgaier et al not teach a clock housing is pot shaped, but if Karr et al provided a side view of item 16, it would be similar to applicant's Figure 4 which is described as a

pot shape. The Examiner takes Official Notice that a pot shaped clock housing is well known in the art because it would allow the placement of numerous electronic elements.

In reference to claim 28, Karr et al, Smith et al, Castellano et al, Hutchings et al and Allgaier et al do not teach a clock housing pivotally linked to the measuring module about an axis. The Examiner takes Official Notice that a clock housing pivotally linked to the measuring module about an axis is well known in the art because it would allow the battery in the clock to be changed.

In reference to claim 29, Karr et al does not teach a seal. Smith et al teaches a seal. Note column 3 lines 9-11. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use a seal with Karr et al because it would prevent the electronic components from being damaged.

In reference to claim 30, Karr et al, Smith et al, Castellano et al, Hutchings et al and Allgaier et al do not teach a surrounding ring on the clock housing, bayonet type connection with a control surface, that it can be received by the measuring module so that a seal between the clock housing and the measuring module is compressed. The Examiner takes Official Notice that a surrounding ring on the clock housing, bayonet type connection with a control surface, that can be received by the measuring module so that a seal between the clock housing and the measuring module is compressed is well known in the art because it would prevent moisture from destroying the electronic elements.

In reference to claim 31, Karr et al, Smith et al, Castellano et al, Hutchings et al, and Allgaier et al do not teach a holographic pattern printed on part of the dial. The

Examiner takes Official Notice that designs on dials are well known and are used to decorate the dial.

In reference to claim 32, Karr et al, Smith et al, Castellano et al do not teach a compass. Hutchings teaches two magnetometers aligned along the other two axes to provide a signal that corresponds to a compass direction. Note column 4 lines 50-65. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Hutchings et al with Karr et al, Smith et al and Castellano et al because it would provide a direction of travel relative to the earth's magnetic north or to the global coordinate system.

In reference to claim 33, Karr et al teaches a stop clock function. Note column 3 lines 18-20.

In reference to claim 34, Karr et al, Smith et al, Castellano et al, Hutchings et al and Allgaier et al do not teach carrying out cash functions. The Examiner takes Official Notice that carrying out electronic cash functions is well known in the art. It would allow the date a transaction was made and the remaining balance of an account.

In reference to claim 35, Karr et al, Smith et al, Castellano et al, Hutchings et al and Allgaier et al do not teach an altimeter. The Examiner takes Official Notice that an altimeter is well known in the art because it helps a mountain climber determine the elevation he or she has climbed.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Demetrius R. Pretlow whose telephone number is (703)

Art Unit: 2857

308-6722. The examiner can normally be reached on Monday - Friday from 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff, can be reached at (703) -308-1677. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Demetrius R. Pretlow

Patent Examiner

*Demetrius Pretlow* 5/17/01

*Marc Hoff*  
MARC S. HOFF  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800